MANUAL

OF

GYMNASTIC EXERCISES.

FOR

SCHOOLS AND FAMILIES.

BY

SAMUEL W. MASON,

SUPERVISOR OF BOSTON SCHOOLS.

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MANUAL

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GYMNASTIC EXERCISES

FOR SCHOOLS AND FAMILIES.

By SAMUEL W. MASON,

MASTER OF THE ELIOT SCHOOL, BOSTON.

"As to the practicability of making these physical exercises a part of our system of public instruction, I entertain no doubt."

JOHN D. PHILBRICK

15.16
9550

ELEVENTH EDITION, WITH ADDITIONS.

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PREFACE.

At the solicitation of many teachers who have desired to introduce into their schools a symmetrical and systematic series of Gymnastic exercises, this Manual, consisting merely of practical exercises, has been prepared.

The utility and practicability of physical exercises in our schools are becoming more and more evident.

No attempt has been made to describe the physiological effect of the different positions; the book being merely what it purports to be, a *Manual* of *Exercises*, so arranged that pupils can perform them, changing from one position to another in exact time, without dictation from the teacher.

The exercises are such as have been practised in this school, with much pleasure and profit, the past two years. They are arranged in the order in which they have been performed; one position fo'

lowing another easily and naturally. The first series can be practised as a whole, including both sitting and standing positions, or any part of them taken consecutively, as the teacher may choose.

Pupils take much more interest and delight in physical exercises, when they know how many times each position is to be taken, when to change to another position, and what that position is to be; and it is certainly easier and more pleasant for the teacher.

Music will add much to the interest and utility of the exercises. The first series can be taken to such tunes as "Glory Hallelujah," "Hail Columbia," "Yankee Doodle," or any tune of marked measure. Keep pupils cheerful; let, or even *make*, them laugh, and enjoy the exercises as much as possible. The exercises are taken uniformly three times each; viz. right member, three times; left, three times; both, three times; alternate, three times each. They can be extended by increasing the number of times each position is taken.

I have been induced to write out the exercises used in this school solely from the desire to hasten if possible the introduction of gymnastic, or calisthenic training into our public schools, feeling that

it was not from the want of positions or works on gymnastics that physical exercises are not generally introduced into our schools, but because teachers have not the time or inclination to select, from the detached illustrations and explanations in books already published, a symmetrical series of positions which should be interesting and profitable.

Having selected from various sources positions as they have appeared in detached illustrations, and added new ones, I have arranged them so that one position naturally follows another, both pleasant to the eye of the spectator, and agreeable, easy, and profitable to the pupil. I submit these exercises to the judgment of teachers, as they have borne the best of all tests, *actual trial in the school-room*, hoping that, if *these* exercises are not adopted, other and more varied ones will be, and that physical exercises will be practised in all our schools, and that we may be able "to turn out" from our schools better specimens of a noble race.

S. W. M.

Eliot School, Boston.

MANUAL.

SITTING POSITIONS.

1. Sit erect with arms folded.
2. Body thrown forward with folded arms on desk.
3. Arms extended on desk in front parallel.
4. Sit erect, shoulders thrown back with arms hanging by side.
5. Head resting on right hand with right elbow on desk.
6. Head resting on left hand with left elbow on desk.
7. Head resting on both hands with both elbows on desk.
8. Head resting on both hands with hands on desk.
9. Sit erect, shoulders down, elbows thrown back as far as possible, with forearm horizontal, hands tightly closed.
10. Right arm thrown horizontally in front and back to position 9 three times.
11. Left arm thrown horizontally in front and back to position 9 three times.

12. Both arms thrown horizontally and parallel in front and back to position 9 three times.
13. Hands thrown forward in front, alternately, and back to position 9, three times each.
14. Both arms extended horizontally and parallel in front.
15. Twist arms as in boring with gimlet, hands tightly closed, three times.
16. Open and close hands three times.
17. Strike hands together three times.
18. Arms in front, forearm perpendicular, upper arm horizontal.
19. Right arm perpendicular and back to position 18 three times.
20. Left arm perpendicular and back to position 18 three times.
21. Both arms perpendicular and back to position 18 three times.
22. Arms alternately perpendicular and back to position 18 three times.
23. Both arms perpendicular.
24. Twist arms as in 15, arms perpendicular.
25. Hands together over head three times.
26. Hands upon each other on top of head.
27. Right arm up sidewise at an angle of 45° and back to position 26 three times.
28. Left arm up sidewise at an angle of 45° and back to position 26 three times.
29. Both arms up sidewise at an angle of 45° and back to position 26 three times.

30. Arms up alternately sidewise at an angle of 45° and back to position 26 three times.
31. Both arms extended up at an angle of 45°.
32. Snap fingers.
33. Strike hands together over head three times.
34. Sit erect, arms folded, as in No. 1.
35. Sit erect, arms folded, right face.
36. Stand.
37. Stand erect, arms folded, left face.

The pupil is now ready to commence the standing positions without interruption, or the standing positions may be taken as a separate exercise, as they must be, unless pupils are in the school-room with desks.

STANDING POSITIONS.

1. At the command, Position, the pupil will stand with heels on the same line, feet turned out equally, forming with each other an angle of 45°; the knees straight; body erect; shoulders square and falling equally; arms hanging naturally by side; elbows near the body; the palm of the hands turned a little to the front; head erect; eyes looking directly forward; thus bringing the ear, shoulders, hip, knee, and ankle into a straight line. Fig. 1. The head, body, and feet should be kept in this position throughout the exercises unless otherwise ordered.
2. Strike chest with closed hands. Fig. 2 (*d*).
3. Arms extended horizontally sidewise. Fig. 2 (*c*).
4. Same as in No. 2. Fig. 2 (*d*).
5. Arms extended perpendicularly. Fig. 2 (*b*).
6. Same as in No. 2. Fig. 2 (*d*).
7. Arms extended horizontally and parallel in front. Fig. 8 (*b*).
8. Same as in No. 2. Fig. 2 (*d*).

Repeat the preceding positions three times.

Fig. 1.

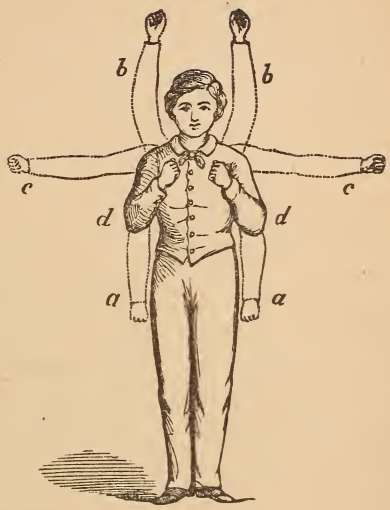

Fig. 2.

These positions will serve to unite many other positions; hence they will often be referred to and repeated. Always perform them with full lungs.

9. Position as in No. 1. Fig. 1.

10. Right arm up and back to No. 9 three times in four motions, viz.: first, elbow at hip with closed hand at shoulder, back of hand in front, Fig. 3 (*a*); second, arm thrown up perpendicularly, Fig. 3 (*b*); third, hand brought to shoulder, same as first, Fig. 3 (*a*); fourth, by turning thumb towards the body, throw the hand down close to the body, as

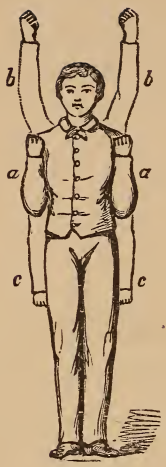

Fig. 3.

Fig. 4.

far as possible without lowering the shoulder. Fig. 3 (*c*).

11. Left arm up three times in four motions, like right arm in No. 10. Fig. 3.
12. Both arms together, up three times in four motions, like right arm in No. 10. Fig. 3.
13. Arms up alternately three times each, as in No. 10. Fig. 3.
14. Position No. 1. Fig. 1.
15. Right shoulder up three times. Fig. 4.
16. Left shoulder up three times. Fig. 4.
17. Both shoulders up three times. Fig. 4.
18. Shoulders up alternately, three times each. Fig. 4.

19. Same as No. 1. Fig. 1.
20. Hands on chest, as in No. 2. Fig. 2 (*d*).
21. Arms extended horizontally sidewise, as in No. 3. Fig. 2 (*c*).
22. Twist arms three times, as in boring with a gimlet. Fig. 5.

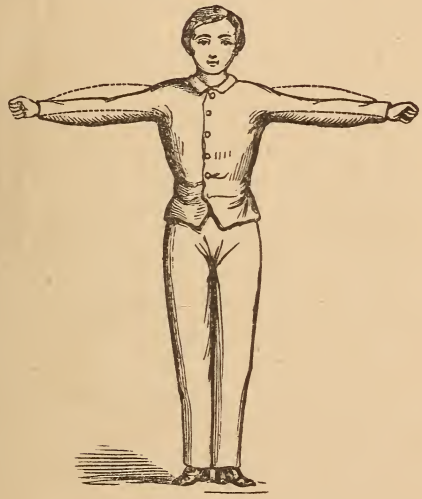

Fig. 5.

23. Open and close hands three times. Fig. 6.
24. Same as No. 1. Fig. 1.
25. With closed hands strike chest, as in No. 2. Fig. 2 (*d*).
26. Arms extended horizontally sidewise, as in No. 3. Fig. 2 (*c*).
27. Hands on chest, as in No. 25. Fig. 2 (*d*).
28. Arms extended perpendicularly. Fig. 2 (*b*).

Fig. 6.

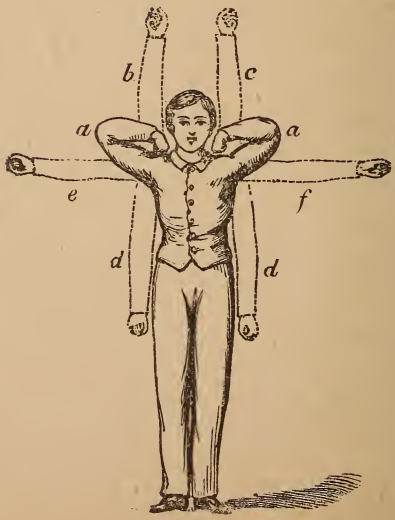

Fig 7

29. Twist arms three times.
30. Open and close hands three times.
31. Strike hands together over head three times.
32. Fingers on top of shoulders, arms sidewise. Fig. 7 (*a*).
33. Right arm perpendicular, and back to No. 32, three times. Fig. 7 (*b*).
34. Left arm perpendicular, and back to No. 32, three times. Fig. 7 (*c*).
35. Both arms together perpendicular, and back to No. 32, three times. Fig. 7 (*b* and *c*).
36. Arms alternately perpendicular, and back to No. 32, three times each.
37. Fingers on shoulders, same as in No. 32. Fig. 7 (*a*).
38. Right arm horizontally sidewise, and back to No. 37, three times. Fig. 7 (*e*).
39. Left arm horizontally sidewise, and back to No. 37, three times. Fig. 7 (*f*).
40. Both arms together horizontally sidewise, and back to No. 37, three times. Figs. 7 (*e* and *f*).
41. Arms alternately horizontally sidewise, and back to No. 37, three times each. Fig. 7.
42. Same as No. 1.
43. Same as No. 2. Fig. 2 (*d*).
44. Same as No. 3. Fig. 2 (*c*).
45. Same as No. 4. Fig. 2 (*d*).
46. Same as No. 5. Fig. 2 (*b*).
47. Same as No. 6. Fig. 2 (*d*).

48. Right arm horizontal in front, and back to No. 47, three times. Fig. 8.

Fig. 8.

Fig. 9.

49. Left arm horizontal in front, and back to No. 47, three times. Fig. 8.
50. Both arms horizontal in front, and back to No. 47, three times. Fig. 8.
51. Arms alternately in front, and back to No. 47, three times each. Fig. 8.
52. Same as No. 1. Fig. 1.
53. Hands in arm-pits. Fig. 10.
54. Right hand thrown down as far as possible without lowering the shoulder, and back to No. 53, three times. Fig. 10 (*a*).
55. Left hand thrown down as far as possible with-

out lowering the shoulder, and back to No. 53, three times. Fig. 10 (*b*).

Fig. 10.

56. Both hands thrown down as far as possible without lowering the shoulder, and back to No. 53, three times.
57. Hands thrown down alternately as far as possible, and back to No. 53, three times each.
58. Same as in No. 1. Fig. 1.

Repeat the following three times.

59. Right hand closed at shoulder, as in No. 10. Fig. 3 (*a*).
60. Right arm in front horizontally. Fig. 8 (*b*).
61. Same as in 59.
62. Right arm perpendicular. Fig. 3 (*b*).
63. Same as in 59.
64. Right arm horizontally sidewise. Fig. 2 (*c*).

65 Same as in 59.

66. Right hand down. Fig. 3 (*c*).

Repeat the following three times.

67. Left hand same as right, in 59.
68. " " " 60.
69. " " " 61.
70. " " " 62.
71. " " " 63.
72. " " " 64.
73. " " " 65.
74. " " " 66.

Repeat the following three times.

75. Both hands together, same as right in 59.
76. " " " " 60.
77. " " " " 61.
78. " " " " 62.
79. " " " " 63.
80. " " " " 64.
81. " " " " 65.
82. " " " " 66.

83. Right hand as in 59, 60, 61, 62, 63, 64, 65, 66, alternate with
84. Left hand as in 67, 68, 69, 70, 71, 72, 73, 74, three times each.
85. Same as in No. 1, Fig. 1.
86. Place closed hands with backs against the shoulders. Fig. 11 (*a*).
87. Throw right hand directly in front, and back to No. 86, three times; arm horizontal.

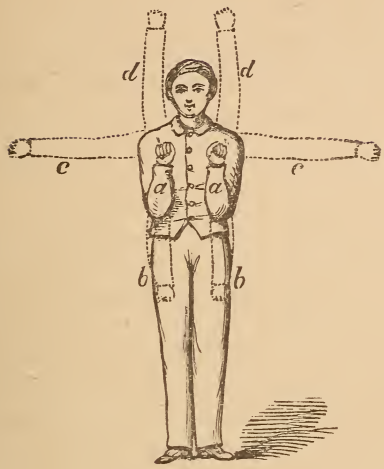

Fig. 11.

88. Throw left hand directly in front, and back to No. 86, three times; arm horizontal.
89. Throw both hands in front, and back to No. 86, three times; arms horizontal.
90. Arms alternately thrown in front, and back to No. 86, three times each; arms horizontal.
91. Same as in No 1.
92. Same as in No. 86. Fig. 11 (*a*).
93. Throw right hand sidewise, and back to 92, three times; arm horizontal. Fig. 11 (*c*).
94. Throw left hand sidewise, and back to 92, three times; arm horizontal. Fig. 11 (*c*).
95. Throw both arms together sidewise, and back to 92, three times; arms horizontal.

96. Hands thrown alternately sidewise, and back to 92, three times each.
97. Same as in No. 1, Fig. 1.
98. Same as 86. Fig. 11 (*a*).
99. Throw right hand down, and back to 86, three times; arm straight at elbow. Fig. 11 (*b*).
100. Throw left hand down, and back to 86, three times; straighten arm at elbow. Fig. 11 (*b*).
101. Both hands thrown down, and back to 86, three times. Fig. 11 (*b*).
102. Hands thrown down alternately, and back to 86, three times.
103. Same as in No. 1, Fig. 1.
104. Same as 86. Fig. 11 (*a*).
105. Right arm perpendicular, and back to 104, three times. Fig 11 (*d*).
106. Left arm perpendicular, and back to 104, three times. Fig. 11 (*d*).
107. Both arms together perpendicular, and back to 104, three times. Fig. 11 (*d*).
108. Arms alternately perpendicular, and back to 104, three times each. Fig. 11 (*d*).
109. Same as No. 1, Fig. 1.
110. Same as No. 2. Fig. 2 (*d*).
111. " " 3. Fig. 2 (*c*).
112. " " 4. Fig. 2 (*d*).
113. " " 5. Fig. 2 (*b*).
114. " " 6. Fig. 2 (*d*).
115. " " 7. Fig. 8 (*b*).

116. Twist arms three times as in boring with gimlet; hands tightly closed.
117. Open and close hands.
118. Strike hands together in front three times.
119. Same as in No. 1, Fig. 1.

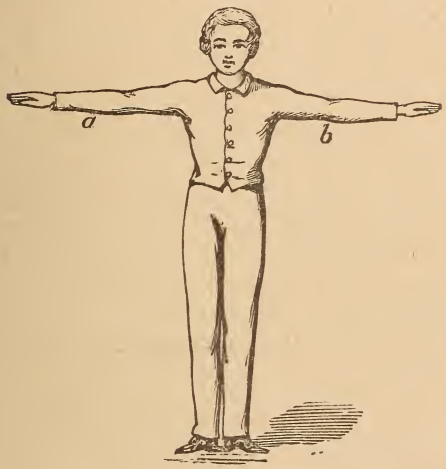

Fig. 12.

120. Right arm horizontally sidewise, and back to 119, three times; hand open and palm down: look at hand. Fig. 12 (*a*).
121. Left arm three times like the right in 120: look at hand. Fig. 12 (*b*).
122. Both arms three times like the right in 120. Fig. 12 (*a* and *b*).
123. Arms alternately sidewise like the right in 120, three times each: look at hands.

124. Same as No. 1, Fig. 1.

125. Hands together over head, and back to **124**, three times. Fig. 13.

Fig. 13.

126. Same as 2. Fig. 2 (*d*).

127. " " 3. Fig. 2 (*c*).

128. " " 4. Fig. 2 (*d*).

129. " " 5. Fig. 2 (*b*).

130. " " 6. Fig. 2 (*d*).

131. " " 7. Fig. 8 (*b*).

132. Strike hands together in front three times.

133. Right arm perpendicular; left, horizontal. Fig. 14.

134. Left arm perpendicular; right, horizontal. Change from 134 to 133 and back, three times.

135. Drop right arm, leaving left perpendicular. Fig. 15.

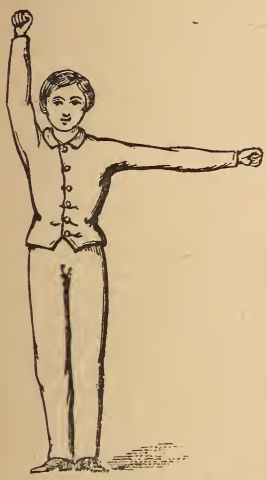

Fig. 14.

Fig. 15.

136. Left arm by side, right perpendicular. Change from 136 to 135 and back, three times.

137. Right hand six inches above head, left six inches before chest. Fig. 16.

138. Left hand six inches above head, right six inches before chest. Change from 138 to 137 and back, three times.

139. Right arm horizontally sidewise, left hand on chest.

140. Left arm horizontally sidewise, right hand on chest. Change from 140 to 139 and back, three times.

Fig. 16.

Fig. 17.

Fig. 18.

141. Hands on hips; fingers in front. Fig. 17.
142. Turn head to right three times, so that the chin shall be over right shoulder. Fig. 17 (*a*).
143. Turn head to left three times, so that chin shall come over left shoulder. Fig. 17 (*b*)
144. Bend head to right three times. Do not raise the shoulder. Fig. 18 (*b*).
145. Bend head to left three times. Do not raise shoulder. Fig. 18 (*a*).
146. Bend head back three times. Fig. 19 (*a*).
147. Bend head forward three times. Fig. 19 (*b*)
148. Bend and turn head to right three times, so that you can see your heels over the right shoulder.

149. Bend and turn head to left three times, so that you can see your heels over left shoulder.
150. Turn body to right three times. Fig. 20.
151. Turn body to the left three times. Fig. 20.

Fig. 19.

Fig. 20.

Fig. 21.

152. Bend body to right three times. Fig. 21 (*a*).
153. Bend body to left three times. Fig. 21 (*b*).
154. Bend body backward three times. Fig. 22 (*a*).
155. Bend body forward three times. Fig. 22 (*b*).
156. Stand on tip-toe and sink the body as far as possible, without touching heels, knees close together, rise without moving hands from hips, or touching heels, to floor. Fig. 23.

The preceding exercises are supposed to be taken.

Fig. 22.

Fig. 23.

the pupil standing by side of his desk in the school-room. Should the exercises be taken out of the school-room, arrange the pupils in lines, so that the pupil can lay his hand on the shoulders of the one before him; shortest in front; lines close together. Let every other line advance one half pace, so that the arms, when raised horizontally sidewise, shall not interfere with each other. The closer the pupils are together, the better the effect. The tendency of all the exercises should be to expand the chest, and keep the shoulders down and back.

AN EXERCISE

ADAPTED TO ANY TUNE IN TRIPLE MEASURE.

1. Position. Fig. 1.
   At the sound of the bell, snap of the finger, nod of the head, or any signal from the teacher, the pupil will advance right foot three paces, of a foot each, body resting on the left foot.

2 Fill lungs, and bring hands, closed, energetically to chest. Fig. 24 (*a*).

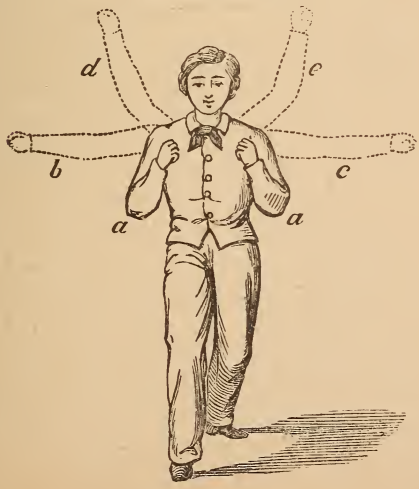

Fig. 24.

Repeat the following three times:

3. First, throw right hand directly in front, arm horizontal. Fig. 8 (*b*).
4. Second, swing arm to the right, horizontally, as far as possible, without moving the body. Fig. 24 (*b*).
5. Third, right hand, closed, on chest. Fig. 24 (*a*).

Repeat the following three times:

6. First, left hand thrown directly in front, arm horizontal. Fig. 8 (*b*).
7. Second, swing left arm horizontally to the left as far as possible, without moving body. Fig. 24 (*c*).
8. Third, left hand, closed, on chest. Fig. 24 (*a*).

Repeat the following three times:

9. First, both hands directly in front, arms horizontal and parallel. Fig. 8 (*b*).
10. Second, swing both arms horizontally as far as possible without moving the body; right arm to the right, left to the left. Fig. 24 (*b* and *c*).
11. Third, both hands, closed, on chest. Fig 24 (*a*).

Repeat, alternately, three times each:

12. Right hand and arm as in 3, 4, and 5.
13. Left hand and arm as in 6, 7, and 8.
14. Position.

The preceding exercise may be varied by advancing left foot instead of right; also by extending arm up at an angle of 45° instead of horizontally. Fig. 24 (*d* and *e*).

AN EXERCISE

FOR ANY TUNE IN DOUBLE MEASURE.

1. Position, except feet together and parallel.
   At any given signal the pupil will advance right foot four paces, of a foot each, or less if necessary, throwing the body on right foot; face directly over the foot in advance.
2. Fill lungs, and throw elbows as far back as possible, forearm horizontal, hands tightly closed. Fig. 25 (*a*).

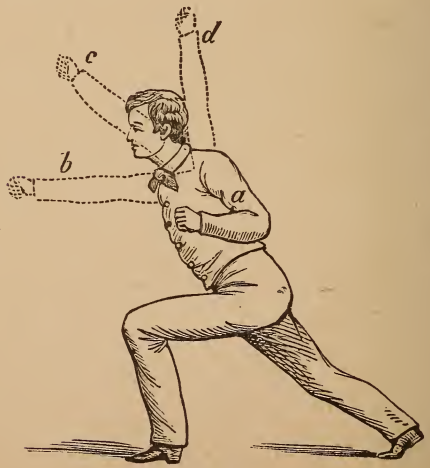

Fig. 25.

Repeat the following three times:

3. First, throw right hand directly in front, arm horizontal. Fig. 25 (*b*).
4. Second, bring right hand by side, forearm horizontal. Fig. 25 (*a*).

Repeat the following three times:

5. First, throw left hand directly in front, arm horizontal. Fig. 25 (*b*).
6. Second, bring left hand by side, forearm horizontal. Fig. 25 (*a*).

Repeat the following three times:

7. First, hands together in front, arms horizontal and parallel. Fig. 25 (*b*).
8. Second, hands by side, forearm horizontal. Fig. 25 (*a*).

Repeat alternately three times each:

9. First, throw right hand as in 3. Fig. 25 (*b*).
10. Second, bring right hand as in 4. Fig. 25 (*a*).
11. First, throw left hand as in 5. Fig. 25 (*b*).
12. Second, bring left hand as in 6. Fig. 25 (*a*).

Vary the exercise by advancing left foot, throw hand perpendicular, Fig. 25 (*d*), or up at an angle of 45°. Fig. 25 (*c*).

BREATHING EXERCISE.

1. Inhale and exhale the breath through the nose three times very slowly, without raising and lowering the shoulders.
2. Inhale and exhale the breath through the nose three times rapidly.
3. Inflate lungs through the nose, then strike right lung rapidly with both hands.
4. Inflate lungs through the nose, then strike left lung rapidly with both hands.
5. Hands on hips, inflate lungs as much as possible; emit the breath with the utmost slowness.
6. Draw in the breath as in No. 5, and expire it audibly through the mouth, as in the prolonged sound of the letter K.
7. Inflate the lungs as in No. 5, then force the breath through the mouth in the manner of an abrupt and whispered cough.
8. Fill the lungs as in No. 5, then emit the breath as quickly as possible, as in giving the aspirated sound of the letter H.
9. Fill lungs through the mouth; force the breath through the nose.

10. Breathe as rapidly as possible through the nose, mouth closed.
11. Breathe through the mouth as rapidly as possible, like panting.
12. Inflate lungs to their utmost capacity, then, at a given signal, explode the sounds of the vowels. Fill lungs before each sound.
13. After fully inflating the lungs, give the radical, median, vanishing, compound, thorough, and tremulous stress of each vowel sound. Fill lungs before each sound.

EIGHT POSITIONS

FOR ANALYZING AND SPELLING WORDS.

Stand erect, arms folded, the word to be distinctly pronounced by pupil before changing position. Let the pupil only mention the letters without pronouncing syllables.

1. Elbows thrown violently back as far as possible, forearm horizontal. Fig. 26 (*a*).
2. Throw arms horizontal and parallel in front. Fig. 26 (*b*).
3. Bend arms at elbow, forearm perpendicular, upper arm horizontal. Fig. 26 (*c*).
4. Arms thrown up perpendicular. Fig. 27 (*a*).
5. Hands together over head. Fig. 27. (*b*).
6. Same as No. 1.
7. Hands thrown down by side as far as possible without lowering shoulders. Fig. 2 (*a*).
8. Arms folded.

These positions to be repeated to correspond to the number of letters or sounds required.

The sounds of the vowels and alphabet, the analysis and spelling of long words, the musical scale with

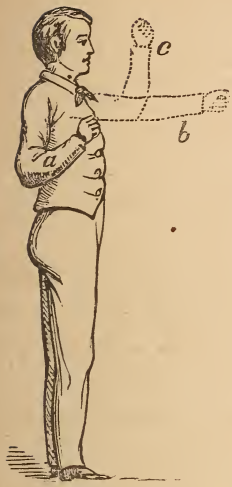

Fig. 26.

Fig. 27.

one, two, or more sounds to each position, may be given; also, the humming and singing of tunes, repeating long lists of words, such as lists of prepositions and conjunctions, battles of the Revolution, Kings of England, rivers, capes, bays, &c., &c. In analyzing words, pronounce the syllables.

1. 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8
ā, ä, â, ă, ē, ĕ, ī, ĭ, ō, ö, ŏ, ū, ŭ, ů, oi, ou.

2. 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8
do, re, me, fa, sol, la, si, do, do, si, la, sol, fa, me, re, do.

3. 1 2 3 4 5 6 7 8
do, do, re, re, me, me, fa, fa, sol, sol, la la, si, si, do, do.

4. 1 2
do do do, re re re, &c.

1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8
O c c a s i o n. M o n u m e n t.

1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8
P e r p e n d i c u l a r i t y.

1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8
E n t h u s i a s t i c a l l y.

Another very agreeable and useful exercise for the vocal organs is the repetition of the vowel sounds with positions, so that the first and each alternate sound shall be accented, and each accented sound dwelt upon as long as two unaccented, the positions made to conform to the time and accentuation of each vowel.

1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8
1. ā ā ā ä ä ä â â â ă ă ă ē ē ē ĕ ĕ ĕ ī ī ī ĭ ĭ ĭ &c.

1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8 1 2 3
hard soft hard soft
2. ā, ä, â, ă, b, c, c, d, ē, ĕ, f, f, g, g, h, ī, ĭ, j, k,

4 5 6 7 8 1 2 3 4 5 6 7 8 1 2 3 4 5 6
l, m, n, ō, ô, ŏ, p, q, r, s, t, ū, ŭ, û, v, w, x, y, z.

FEET POSITIONS

ADAPTED TO ANY TUNE OF EVEN MEASURE.

Stand erect with hands on hips.

1. Advance right foot three feet and back, two, four, or any even number of times, left foot remaining unmoved.
2. Place right foot sidewise three feet, same number of times as in No. 1.
3. Place right foot behind three feet, same number of times as in No. 1.
4. Place right foot behind and across the left leg as far as possible, same number of times as in No. 1.
5. Place right foot before and across the left leg as far as possible, same number of times as in No. 1.

Do the same with left foot, then perform each position with right and left foot alternately.

AN EXERCISE

ADAPTED TO TUNE "HAIL COLUMBIA."

1. Stand in position, except arms folded.
2. First measure, exhale the breath through the nose.
3. Second measure, inhale the breath through the nose.
4. First half of third measure, throw elbows back as far as possible, forearms horizontal. Fig. 8 (*a*).
5. Last half of third measure, throw arms in front, horizontal and parallel. Fig. 8 (*b*).
6. Fourth measure, same positions as for third measure. Fig. 8 (*a* and *b*).
7. Fifth and sixth measures, same as first and second.
8. Seventh and eighth measures, same as third and fourth.
9. Ninth and tenth measures, same as first and second.
10. Eleventh and twelfth measures, strike left lung with right hand four times, swinging arm at shoulder.

11. Thirteenth and fourteenth measures, same as first and second.
12. Fifteenth and sixteenth measures, strike right lung with left hand four times, swinging arm at shoulder.
13. Seventeenth and eighteenth measures, same as first and second.
14. Nineteenth and twentieth measures, strike both lungs with both hands four times, swinging arms at shoulders.
15. Twenty-first and twenty-second measures, same as first and second.
16. Twenty-third and twenty-fourth measures, strike lungs with hands alternately two times each, swinging arms at shoulders.
17. Twenty-fifth and twenty-sixth measures, same as first and second.
18. Twenty-seventh and twenty-eighth measures, strike chest rapidly, as indicated by the rhythm of the tune.

AN EXERCISE

ADAPTED TO TUNE "MARCHING ALONG."

1. Stand in "Position." Fig. 1.
2. Strike hands together once, directly in front, arms horizontal.
3. Bring closed hands to chest. Fig. 28 (*d*).

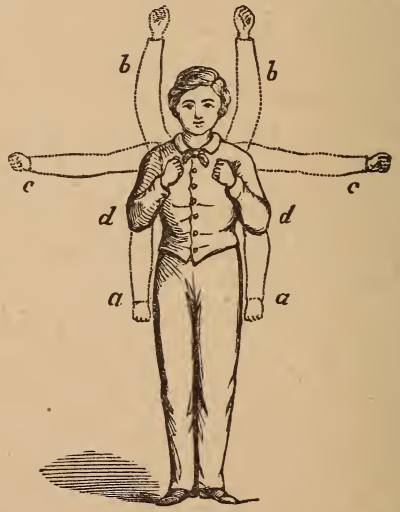

Fig. 28.

4. Throw hands in front; arms horizontal and parallel.

5. Strike hands together once.
6. Swing hands horizontally as far as possible; right hand to the right, left, to the left; keep arms straight at elbows. Fig. 28 (*c*).
7. Strike hands together once, directly in front.
8. Bring closed hands to chest. Fig. 28 (*d*).
9. Throw arms perpendicularly. Fig. 28 (*b*).
10. Strike hands together over head once.
11. Bring closed hands to chest. Fig. 28 (*d*).
12. Throw hands in front; arms horizontal and parallel.
13. Strike hands together once.
14. Hands by side. Fig. 28 (*a*).
15. Strike hands together twice, directly in front; arms horizontal.
16. Bring closed hands from No. 15 to chest, twice. Fig. 28 (*d*).
17. Throw hands directly in front from No. 16, twice; arms horizontal and parallel.
18. Strike hands together twice.
19. Swing hands horizontally as far as possible, and back to No. 17, twice; right hand to the right, left, to the left; keeping arm straight at elbow. Fig. 28 (*c*).
20. Bring closed hands from No. 19 to the chest, twice.
21. Throw arms from No. 20 perpendicularly, twice. Fig. 28 (*b*).
22. Strike hands together over head, twice.

23. Bring closed hands to chest from No. 22, twice. Fig. 28 (*d*).
24. Throw hands directly in front from No. 23, twice.
25. Strike hands together, twice.
26. Bring closed hands to chest from No. 24, twice. Fig. 28 (*d*).
27. Hands by side. Fig. 28 (*a*).
28. Strike hands together in front three times; arms horizontal.
29. Bring closed hands to the chest from No. 28, three times. Fig. 28 (*d*).
30. Throw hands directly in front from No. 29, three times; arms horizontal and parallel.
31. Strike hands together, three times.
32. Swing hands horizontally as far as possible, and back to No. 30, three times; right hand to the right, left, to the left; keep arm straight at elbow. Fig. 28 (*c*).
33. Bring closed hands to the chest from No. 32, three times. Fig. 28 (*d*).
34. Throw arm perpendicularly from No. 33, three times. Fig. 28 (*b*).
35. Strike hands together over head, three times.
36. Bring closed hands to chest from No. 35, three times. Fig. 28 (*d*).
37. Throw hands directly in front from No. 36, three times; arms horizontal and parallel.
38. Strike hands together, three times.

39. Bring closed hands to the chest from No. 37, three times. Fig. 28 (*d*).
40. Hands by side. Fig. 28 (*a*).

This exercise may be extended indefinitely, as indicated in the description.

AN EXERCISE

FOR FEET AND LEGS.

1. Stand erect with hands on hips.
2. Raise right leg as shown by Fig. 29 (*a*).

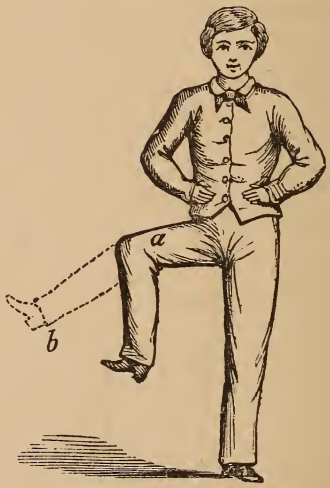

Fig. 29.

3. Straighten right leg at knee. Fig. 29 (*b*).
4. Place right leg as in No. 2. Fig. 29 (*a*).
5. Place right foot and leg as in No. 1.

Repeat the preceding three times.

6. Same as in No. 1.
7. Raise the left leg same as the right, in No. 2. Fig. 29 (*a*).
8. Straighten the left leg same as the right, in No. 3. Fig. 29 (*b*).
9. Place left leg as in No. 7. Fig. 29 (*a*).
10. Place left leg as in No. 6.

Repeat the preceding three times.

11. Same as in No. 1.
12. Raise the right knee as high as the hip. Fig. 30 (*a*).

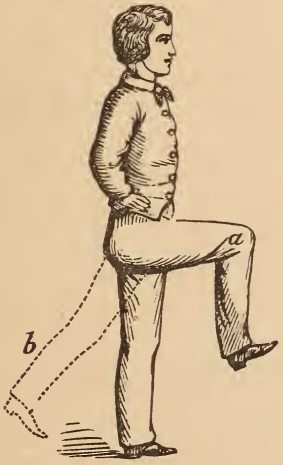

Fig. 30.

13. Throw the right leg backwards. Fig. 30 (*b*).
14. Place the right leg as in No. 12. Fig. 30 (*a*).

15. Place right foot as in No. 11.

Repeat three times.

16. Same as in No. 11.
17. Raise left leg same as the right, in No. 12. Fig. 30 (*a*).
18. Throw left leg backwards same as the right, in No. 13. Fig. 30 (*b*).
19. Place left leg as in No. 17. Fig. 30 (*a*).
20. Place left foot same as in No. 16.
21. Raise the right leg three times as in Fig. 31.

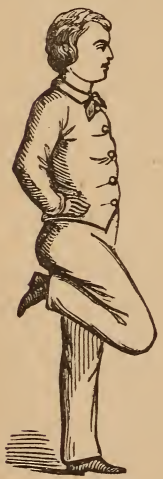

Fig. 31.

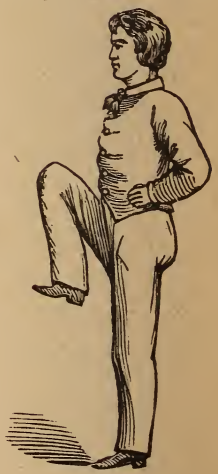

Fig. 32.

22. Raise the left leg three times same as the right, in No. 21. Fig. 31.
23. Raise the right leg three times, as in Fig. 32

24. Raise the left leg three times, same as the right, in No. 23. Fig. 32.

In this exercise let the head be held erect and the body as immovable as possible.

ADDITIONAL EXERCISES.

By SAMUEL W. MASON.

ADDITIONAL EXERCISES.

SITTING POSITIONS.

1. Sit erect with arms folded.
2. Body thrown forward with folded arms on desk.
3. Arms extended on desk in front parallel.
4. Sit erect, shoulders thrown back with arms hanging by side.
5. Head resting on right hand with right elbow on desk.
6. Head resting on left hand with left elbow on desk.
7. Head resting on both hands with both elbows on desk.
8. Head resting on both hands with hands on desk.
9. Sit erect, shoulders down, elbows thrown back as far as possible, with forearm horizontal, hands tightly closed.
10. Right arm thrown horizontally in front and back to position 9 three times.

11. Left arm thrown horizontally in front and back to position 9 three times.
12. Both arms thrown horizontally and parallel in front and back to position 9 three times.
13. Hands thrown forward in front, alternately, and back to position 9, three times each.
14. Both arms extended horizontally and parallel in front.
15. Twist arms as in boring with gimlet, hands tightly closed, three times.
16. Open and close hands three times.
17. Strike hands together three times.
18. Arms in front, forearm perpendicular, upper arm horizontal.
19. Right arm perpendicular and back to position 18 three times.
20. Left arm perpendicular and back to position 18 three times.
21. Both arms perpendicular and back to position 18 three times.
22. Arms alternately perpendicular and back to position 18 three times.
23. Both arms perpendicular.
24. Twist arms as in 15, perpendicular.
25. Hands together over head three times.
26. Hands upon each other on top of head.
27. Right arm up sidewise at an angle of 45° and back to position 26 three times.

28. Left arm up sidewise at an angle of 45° and back to position 26 three times.
29. Both arms up sidewise at an angle of 45° and back to position 26 three times.
30. Arms up alternately sidewise at an angle of 45° and back to position 26 three times.
31. Both arms extended up at an angle of 45°.
32. Snap fingers.
33. Strike hands together over head three times.
34. Sit erect, arms folded, as in No. 1.
35. Sit erect, arms folded, right face.
36. Stand.
37. Stand erect, arms folded, left face.

The pupil will now be ready to commence the standing positions without interruption, or the standing positions may be taken as a separate exercise, as they must be, unless pupils are in a schoolroom with desks.

STANDING POSITIONS.

At the command "Position," pupils should stand with heels on the same line and near each other; feet turned equally out, and forming with each other an angle of 60°; knees straight; body erect; shoulders square and falling equally; arms hanging naturally by the sides, with elbows near the body; hands open without constraint, palms turned a little to the front; eyes looking directly forward; head erect and square to the front, — thus bringing the ear, shoulder, hip, knee, and ankle in a straight line. This position should be maintained during the exercise, except as indicated below. Avoid all sudden or jerking movements. In extending the hand or arm, — horizontally, vertically, or obliquely, — be sure that it is done firmly and evenly, as if carrying a heavy weight. In all motions *from* the body, or on the odd numbers, the muscles should be firm and rigid; in motions *toward* the body, or on the even numbers, muscles relaxed. Much of the benefit from physical exercises will depend upon the proper tension and relaxation of the muscles: Fig. 1 (*d* and *d*).

At the command "Place," place ends of fingers on shoulders, upper arm horizontally sidewise, muscles relaxed: Fig. 1 (*a* and *á*).

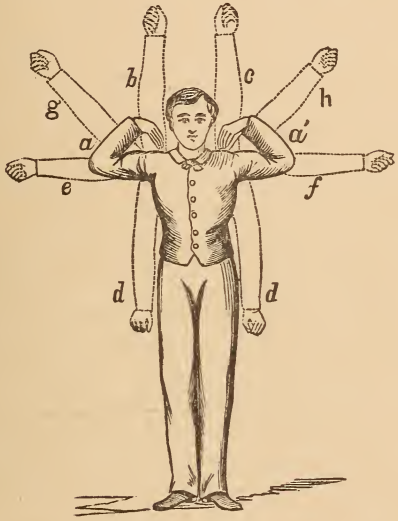

Fig. 1.

1. Right arm extended horizontally sidewise, elbow and wrist straight, fist clenched, muscles tense: Fig. 1 (*e*).
   3. Same as No. 1.
   5. Same as No. 1 or 3.
2. Right hand brought to the shoulder, upper arm horizontal, hand open, muscles relaxed: Fig. 1 (*a*).
   4. Same as No. 2.
   6. Same as No. 2 or 4.

7. Left arm extended horizontally sidewise, elbow and wrist straight, fist clenched, muscles tense: Fig. 1 (*f*).
   9. Same as No. 7.
   11. Same as No. 7 or 9.
8. Left hand brought to the shoulder, upper arm horizontal, hand open, muscles relaxed: Fig. 1 (*á*).
   10. Same as No. 8.
   12. Same as No. 8 or 10.
13. Both arms extended horizontally sidewise, elbows and wrists straight, fists clenched, muscles tense: Fig. 1 (*e* and *f*).
   15. Same as No. 13.
   17. Same as No. 13 or 15.
14. Both hands on shoulders, upper arm horizontal, hands open, muscles relaxed: Fig. 1 (*a* and *á*).
   16. Same as No. 14.
   18. Same as No. 14 or 16.
19. Right arm extended vertically up, elbow and wrist straight, fist clenched, muscles tense: Fig. 1 (*b*).
   21. Same as No. 19.
   23. Same as No. 19 or 21.
20. Right hand on shoulder, upper arm horizontal, hand open, muscles relaxed: Fig. 1 (*a*).
   22. Same as No. 20.
   24. Same as No. 20 or 22.

25. Left arm extended vertically up, elbow and wrist straight, fist clenched, muscles tense: Fig. 1 (*c*).
    27. Same as No. 25.
    29. Same as No. 25 or 27.
26. Left hand on shoulder, upper arm horizontal, hand open, muscles relaxed: Fig. 1 (*d*).
    28. Same as No. 26.
    30. Same as No. 26 or 28.
31. Both arms extended vertically up, elbows and wrists straight, fists clenched, muscles relaxed: Fig. 1 (*b* and *c*).
    33. Same as No. 31.
    35. Same as No. 31 and 33.
32. Both hands on shoulders, upper arms horizontal, hands open, muscles relaxed: Fig. 1 (*a* and *d*).
    34. Same as No. 32.
    36. Same as No. 32 or 34.
37. Right arm extended upward at angle of 45°, elbow and wrist straight, fist clenched, muscles tense: Fig. 1 (*g*).
    39. Same as No. 37.
    41. Same as No. 37 or 39.
38. Right hand on shoulder, upper arm horizontal, hand open, muscles relaxed: Fig. 1 (*a*).
    40. Same as No. 38.
    42. Same as No. 38 or 40.

43. Left arm extended upward at angle of 45°, elbow and wrist straight, fist clenched, muscles tense: Fig. 1 (*h*).
    45. Same as No. 43.
    47. Same as No. 43 or 45.
44. Left hand on shoulder, upper arm horizontal, hand open, muscles relaxed: Fig. 1 (*á*).
    46. Same as No. 44.
    48. Same as No. 44 or 46.
49. Both arms extended upward at an angle of 45°, elbows and wrists straight, fists clenched, muscles tense: Fig. 1 (*g* and *h*).
    51. Same as No. 49.
    Same as No. 49 or 51.
50. Both hands on shoulders, upper arms horizontal, hands open, muscles relaxed: Fig. 1 (*á* and *a*).
    52. Same as No. 50.
    54. Same as No. 50 or 52.

This exercise may be varied, by having all the odd numbers taken with hands open, but be sure that the muscles are firm and rigid.

Teacher should count very slowly, as follows, placing strong emphasis on the odd numbers, thus: 1, 2, 3, 4, 5, 6; *left*, 2, 3, 4, 5, 6; *both*, 2, 3, 4, 5, 6; *up*, 2, 3, 4, 5, 6; *left*, 2, 3, 4, 5, 6; *both*, 2, 3, 4, 5, 6; *upward*, 2, 3, 4, 5, 6; *left*, 2, 3, 4, 5, 6; *both*, 2, 3, 4, 5, 6.

Firmness, precision, and uniformity should be the aim in physical exercises, and these cannot be secured unless the teacher is firm and decided in her tones; therefore let all commands, counting, etc., be done with an energetic, downward slide of the voice.

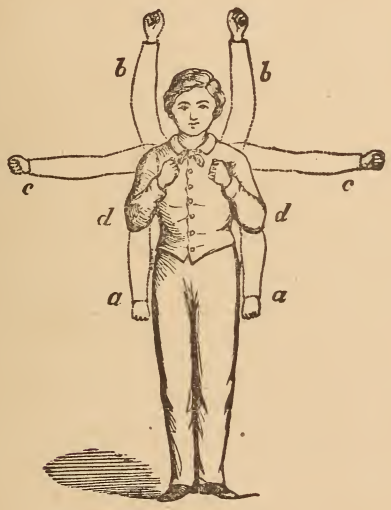

Fig. 2.

"Position," Fig. 2 (*a* and *a'*), fists clenched through the exercise. [Letters marked prime (') indicate left hand.]

1. [1] Right hand on chest (*d*).

5. [1] Same as No. 1.

2. [2] Right hand vertically up (*b*).

6. [2] Same as No. 2.

3. [3] Right hand on chest (*d*).
7. [3] Same as No. 3.
4. [4] Right hand down (*a*).
8. [4] Same as No. 4.
9. [1] Left hand on chest (*d'*).
13. [4] Same as No. 9.
10. [2] Left hand vertically up (*b'*).
14. [2] Same as No. 10.
11. [3] Left hand on chest (*d'*).
15. [3] Same as No. 11.
12. [4] Left hand down (*a'*).
16. [4] Same as No. 12.
17. [1] Both hands on chest *d*, *d'*).
21. [1] Same as No. 17.
18. [2] Both hands vertically up (*b*, *b'*).
22. [2] Same as No. 18.
19. [3] Both hands on chest (*d*, *d'*).
23. [3] Same as No. 19.
20. [4] Both hands down (*a*, *a'*).
24. [4] Same as No. 20.
25. [1] Right hand on chest (*d*).
29. [1] Same as No. 25.
26. [2] Right hand horizontally sidewise (*c*).
30. [2] Same as No. 26.
27. [3] Right hand on chest (*d*).
31. [3] Same as No. 27.
28. [4] Right hand down (*a*).
32. [4] Same as No. 28.

33. [1] Left hand on chest (*d'*).
37. [1] Same as No. 33.
34. Left hand horizontally sidewise (*c'*).
38. [2] Same as No. 34.
35. [3] Left hand on chest (*d'*).
39. [3] Same as No. 35.
36. [4] Left hand down (*a'*).
40. [4] Same as No. 36.
41. [1] Both hands on chest (*d*, *d'*).
45. [1] Same as No. 41.
42. [2] Both hands horizontally sidewise (*c*, *c'*).
46. [2] Same as No. 42.
43. [3] Both hands on chest (*d*, *d*).
47. [3] Same as No. 43.
44. [4] Both hands down (*a*, *a'*).
48. [4] Same as No. 44.
49. [1] Right hand on chest (*d*).
53. [1] Same as No. 49.
50. [2] Right hand directly and horizontally in front.
54. [2] Same as No. 50.
51. [3] Right hand on chest (*d*).
55. [3] Same as No. 51.
52. [4] Right hand down (*a*).
56. [4] Same as No. 52.
57. [1] Left hand on chest (*d'*).
61. [1] Same as No. 57.
58. [2] Left hand directly and horizontally in front.
62. [2] Same as No. 58.

59. [3] Left hand on chest (*d'*).
63. [3] Same as No. 59.
60. [4] Left hand down (*a*).
64. [4] Same as No. 60.
65. [1] Both hands on chest (*d*, *d'*).
69. [1] Same as No. 65.
66. [2] Both hands extended horizontally and parallel in front.
70. [2] Same as No. 66.
67. [3] Both hands on chest (*d*, *d'*).
71. [3] Same as No. 67.
68. [4] Both hands down (*a*, *a'*).
72. [4] Same as No. 68.
73. [1] Right hand on chest (*d*).
81. [1] Same as No. 73.
74. [2] Right hand vertically up (*b*).
82. [2] Same as No. 74.
75. [3] Right hand on chest (*d*).
83. [3] Same as No. 75.
76. [4] Right hand horizontally sidewise (*c*).
84. [4] Same as No. 76.
77. [5] Right hand on chest (*d*).
85. [5] Same as No. 77.
78. [6] Right hand directly in front.
86. [6] Same as No. 78.
79. [7] Right hand on chest (*d*).
87. [7] Same as No. 79.
80. [8] Right hand down (*a*).
88. [8] Same as No. 80.

89. [1] Left hand on chest (*d'*).
97. [1] Same as No. 89.
90. [2] Left hand vertically up (*b'*).
98. [2] Same as No. 90.
91. [3] Left hand on chest (*d*).
99. [3] Same as No. 91.
92. [4] Left hand horizontally sidewise (*c'*).
100. [4] Same as No. 92.
93. [5] Left hand on chest (*d'*).
101. [5] Same as No. 93.
94. [6] Left hand directly in front.
102. [6] Same as No. 94.
95. [7] Left hand on chest (*d'*).
103. [7] Same as No. 95.
96. [8] Left hand down (*a'*).
104. [8] Same as No. 96.
105. [1] Both hands on chest (*d*, *d'*).
113. [1] Same as No. 105.
106. [2] Both hands vertically up (*b*, *b'*).
114. [2] Same as No. 106.
107. [3] Both hands on chest (*d*, *d'*).
115. [3] Same as No. 107.
108. [4] Both hands horizontally sidewise (*c*, *c'*).
116. [4] Same as No. 108.
109. [5] Both hands on chest (*d*, *d'*).
117. [5] Same as No. 109.
110. [6] Both hands horizontally and parallel in front.
118. [6] Same as No. 110.

111. [7] Both hands on chest (*d*, *d'*).
119. [7] Same as No. 111.
112. [8] Both hands down (*a*, *a'*).
120. [8] Same as No. 112.

Every motion strong, firm, and uniform. Count (not pupils), as indicated by the small figures, as follows: 1, 2, 3, 4, 1, 2, 3, *left;* 1, 2, 3, 4, 1, 2, 3, *both;* 1, 2, 3, 4, 1, 2, 3, *right;* 1, 2, 3, 4, 1, 2, 3, *left;* 1, 2, 3, 4, 1, 2, 3, *both;* 1, 2, 3, 4, 1, 2, 3, *right;* 1, 2, 3, 4, 1, 2, 3, *left;* 1, 2, 3, 4, 1, 2, 3, *both;* 1, 2, 3, 4, 1, 2, 3, *right;* 1, 2, 3, 4, 5, 6, 7, 8, 1, 2, 3, 4, 5, 6, 7, *left;* 1, 2, 3, 4, 5, 6, 7, 8, 1, 2, 3, 4, 5, 6, 7, *both;* 1, 2, 3, 4, 5, 6, 7, 8, 1, 2, 3, 4, 5, 6, 7, *rest.*

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